

# Converting Colors

$Y_{xy}(43.8951, 0.5089, 0.4340)$

Have a look what the booklet for  
Yxy(43.8951, 0.5089, 0.4340)  
contains.

<b>Yxy(43.9541, 0.5087, 0.4341)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(43.9541, 0.5087, 0.4341)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB9B01
RGB	251, 155, 1
RGB Percent	98%, 61%, 0%
CMY	0.0157, 0.3921, 0.9969
CMYK	0.00, 0.38, 1.00, 0.02
HSL	37°, 99%, 49%
HSV	37°, 100%, 98%
XYZ	51.5076, 43.9541, 5.7917
YIQ	166.1480, 106.6500, -27.5420

# Conversions

## Conversions Part 2

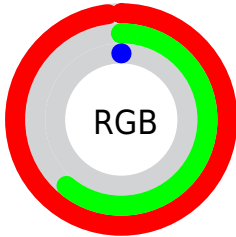
Format	Color
<a href="#">RYB</a>	<a href="#">157, 251, 1</a>
Decimal	<a href="#">16489217</a>
CIELab	<a href="#">72.20, 27.48, 76.85</a>
CIElCh	<a href="#">72, 81.615, 70.323</a>
Yxy	<a href="#">43.9541, 0.5087, 0.4341</a>
Android (android.graphics.Color)	<a href="#">4294679297</a> ( <a href="#">0xFFFB9B01</a> )
YUV	<a href="#">166.1480, -81.4180, 74.4152</a>
Hunter-Lab	<a href="#">66.2979, 22.6574, 41.2290</a>

# Details

The Yxy color **43.9541, 0.5087, 0.4341** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **15.4775, 0.1664, 0.1188**, and the grayscale version is **38.5624, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.9032, 0.4365, 0.4514**, and **20.3919, 0.5269, 0.4199** is the 20% darker color. If you saturate the color by 10%, you get **43.8531, 0.5091, 0.4339**, and if you desaturate by 10%, it is **47.3628, 0.4939, 0.4385**.

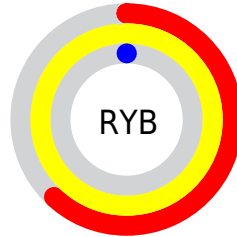
# Distribution



Red (98%)

Green (61%)

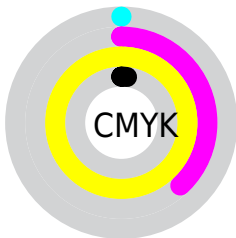
Blue (0%)



Red (62%)

Yellow (98%)

Blue (0%)

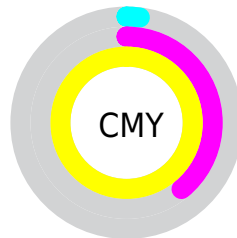


Cyan (0%)

Magenta (38%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (39%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.9541, 0.5087, 0.4341 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 43.9541, 0.5087, 0.4341 by changing the saturation by 10% instead.





 43.9541, 0.5087,  
0.4341


 43.9541, 0.5087,  
0.4341


362.5209, 0.4199,  
0.3976


 30.6344, 0.5253,  
0.4369


 81.1487, 0.4803,  
0.4255

 20.3206, 0.5432,  
0.4371


 105.7924, 0.4683,  
0.4209


 12.6283, 0.5649,  
0.4351


 134.9795, 0.4578,  
0.4164

 7.1731, 0.5798,  
0.4202

 169.0945, 0.4484,  
0.4121

 3.5706, 0.6016,  
0.3984

 208.5218, 0.4401,  
0.4080


 1.4364, 0.6366,  
0.3634

 253.6456, 0.4326,


 0.2433, 0.7878,


0.4043


0.2122


 304.8506, 0.4259,  
0.4008


 0.0000, 0.0000,  
0.0000


 43.9541, 0.5087,  
0.4341


 43.9541, 0.5087,  
0.4341


 43.8531, 0.5091,  
0.4339

 47.3628, 0.4939,  
0.4385

 51.1231, 0.4759,  
0.4378

 55.2695, 0.4550,  
0.4320

 59.8242, 0.4324,  
0.4218

 64.8067, 0.4093,  
0.4084

70.2344, 0.3868,  
0.3930

76.1234, 0.3656,  
0.3766

82.4885, 0.3459,  
0.3600

89.3439, 0.3282,  
0.3439

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



43.9541, 0.5348, 0.3571



43.9541, 0.5087, 0.4341



43.9541, 0.4312, 0.5104

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



43.9541, 0.5087, 0.4341



43.9541, 0.1608, 0.3448



43.9541, 0.2576, 0.1834

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



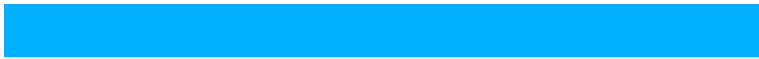
43.9541, 0.5087, 0.4341



15.4775, 0.1664, 0.1188

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



43.9541, 0.1789, 0.1681



43.9541, 0.5087, 0.4341



43.9541, 0.1318, 0.2370

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



43.9541, 0.5087, 0.4341



43.9541, 0.2319, 0.4804



43.9541, 0.1387, 0.1827



43.9541, 0.3716, 0.2250



# Rectangle

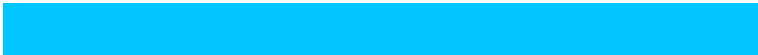
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



43.9541, 0.5087, 0.4341



43.9541, 0.3657, 0.5429



43.9541, 0.1387, 0.1827



43.9541, 0.2268, 0.1753

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



43.9564, 0.5087, 0.4341



78.6989, 0.3663, 0.3771



21.4621, 0.5416, 0.2759



16.2822, 0.3751, 0.3841



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



43.9564, 0.5087, 0.4341



45.4342, 0.5092, 0.4339



85.1553, 0.4016, 0.5192



19.0069, 0.3278, 0.3436



23.3432, 0.5073, 0.4354



2.3670, 0.4939, 0.4460



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



15.4775, 0.1664, 0.1188



15.9221, 0.1662, 0.1181



7.1990, 0.1528, 0.0617



17.7346, 0.2979, 0.3140



8.3462, 0.1670, 0.1213



0.9710, 0.1736, 0.1448



# Previews

## White Background



This preview shows how the Yxy color 43.9541, 0.5087, 0.4341 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 43.9541, 0.5087, 0.4341 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 43.9541, 0.5087, 0.4341**

## **Background**



This preview shows how black text looks on a background with the Yxy color 43.9541, 0.5087, 0.4341.



This preview shows how white text looks on a background with the Yxy color 43.9541, 0.5087, 0.4341.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

43.9541, 0.5087, 0.4341

### Protanopia

44.1638, 0.4379, 0.4853

### Deuteranopia

43.8526, 0.4725, 0.4631



## Tritanopia

43.8774, 0.4162, 0.3188

# Trichromacy



## Original Color

43.9541, 0.5087, 0.4341

## Protanomaly

43.8361, 0.4644, 0.4663

## Deuteranomaly

43.6868, 0.4865, 0.4519

## Tritanomaly

43.4666, 0.4697, 0.3790

# Monochromacy



## Original Color

43.9541, 0.5087, 0.4341

## Achromatopsia

38.1326, 0.3127, 0.3290

## Achromatomaly

38.7516, 0.3999, 0.4021

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.9541, 0.5087, 0.4341 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(251, 155, 1)` looks like.

```
.text, #text, p{  
    color:rgb(251, 155, 1)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(251, 155, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 155, 1) }
```

## Border

The CSS property to change the border of an element to Yxy 43.9541, 0.5087, 0.4341 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(251, 155, 1) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(251, 155, 1) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(251, 155, 1) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 155, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 155, 1);  
box-shadow:4px 4px 4px 4px rgb(251, 155,  
1) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.9541, 0.5087, 0.4341 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 155, 1) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(251,  
155, 1) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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